

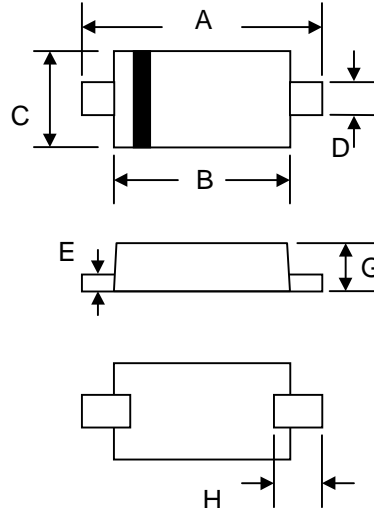
# SS1020FL – SS10100FL

RoHS 

## SURFACE MOUNT SCHOTTKY BARRIER DIODE

### Features

- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection
- Designed for Surface Mount Application
- Plastic Material – UL Recognition Flammability Classification 94V-O



SOD-123FL		
Dim	Min	Max
A	3.50	3.70
B	2.65	2.95
C	1.65	1.95
D	0.75	1.05
E	0.10	0.20
G	0.98	1.08
H	0.50	0.80
All Dimensions in mm		

### Mechanical Data

- Case: SOD-123FL, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.017 grams (approx.)
- Marking: SS1020FL G2 SS1030FL G3  
SS1040FL G4 SS1060FL G6  
SS10100FL G10
- **Lead Free: For RoHS / Lead Free Version, Add “-LF” Suffix to Part Number, See Page 4**

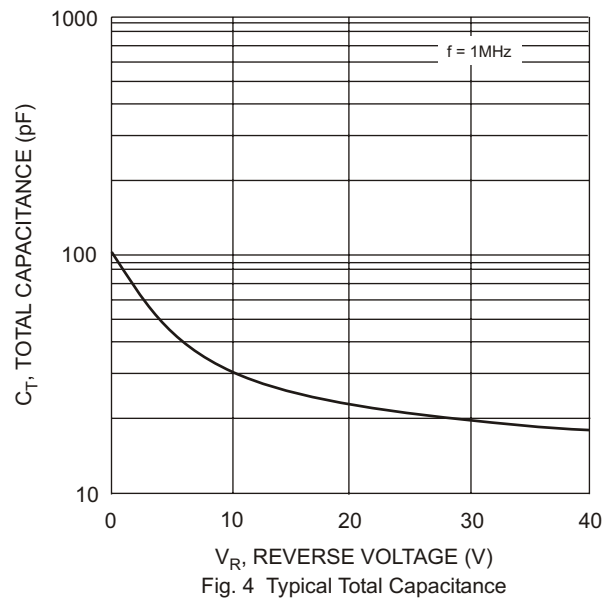
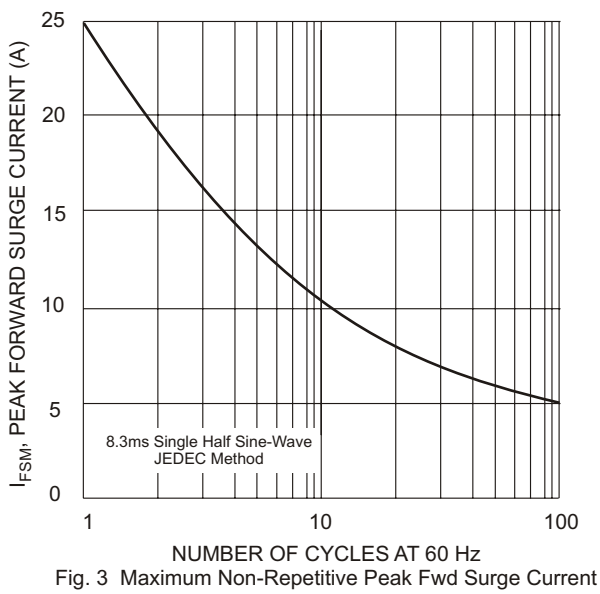
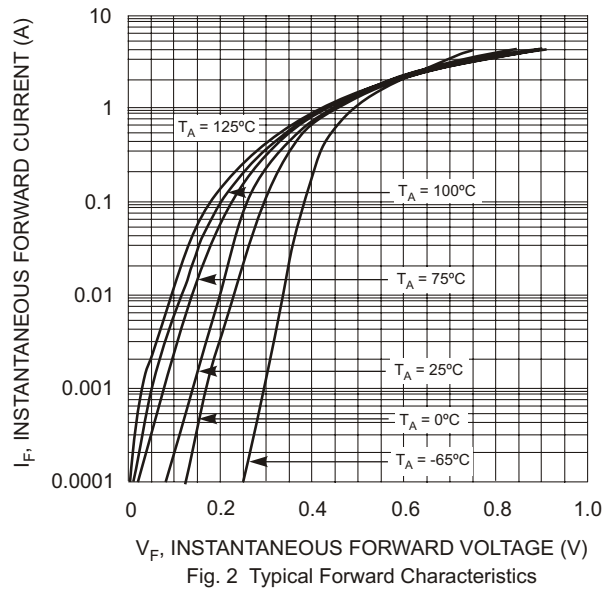
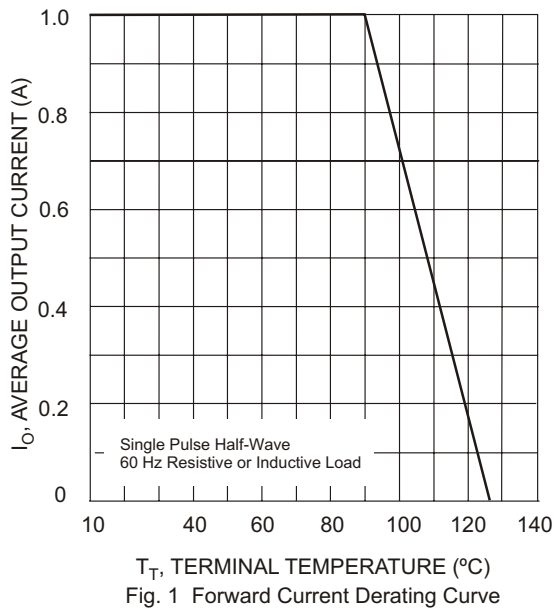
### Maximum Ratings @T<sub>A</sub>=25°C unless otherwise specified

Characteristic	Symbol	SS1020FL	SS1030FL	SS1040FL	SS1060FL	SS10100FL	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	20	30	40	60	100	V
Forward Continuous Current (Note 1)	I <sub>F</sub>	1.0					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	25					A
Power Dissipation (Note 1)	P <sub>d</sub>	450					mW
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-65 to +125					°C

### Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

Characteristic	Symbol	SS1020FL	SS1030FL	SS1040FL	SS1060FL	SS10100FL	Unit
Forward Voltage Drop @I <sub>F</sub> = 1.0A	V <sub>FM</sub>	0.45	0.55	0.55	0.70	0.85	V
Peak Reverse Leakage Current @ V <sub>RRM</sub>	I <sub>RM</sub>	500					μA
Typical Junction Capacitance	C <sub>j</sub>	50					pF

Note: 1. Valid provided that terminals are kept at ambient temperature.

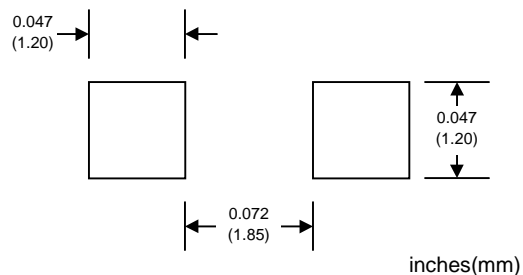


## MARKING INFORMATION



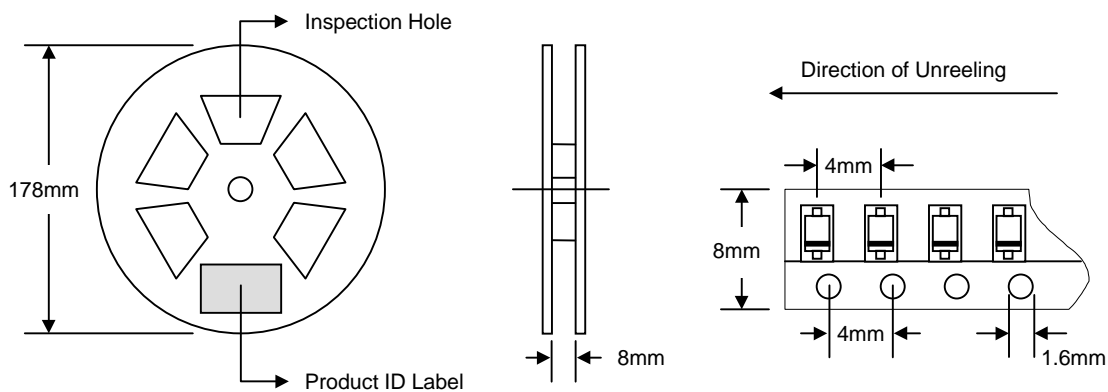
Cathode = Polarity Band  
 Gx = Device Code  
 x = 2 (SS1020FL)  
       3 (SS1030FL)  
       4 (SS1040FL)  
       6 (SS1060FL)  
       10 (SS10100FL)

## RECOMMENDED FOOTPRINT



## PACKAGING INFORMATION

### TAPE & REEL



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
178	3,000	187 x 187 x 65	15,000	390 x 240 x 420	150,000	10.0

**Note:** 1. Anti-static plastic reel, white, water clear or blue color. Inspection hole might be varied in different alignment.  
 2. Components are packed in accordance with EIA standard 481-1 and 481-2.

## ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SS1020FL-T1	SOD-123FL	3000/Tape & Reel
SS1030FL-T1	SOD-123FL	3000/Tape & Reel
SS1040FL-T1	SOD-123FL	3000/Tape & Reel
SS1060FL-T1	SOD-123FL	3000/Tape & Reel
SS10100FL-T1	SOD-123FL	3000/Tape & Reel

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
2. **To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, SS1020FL-T1-LF.**

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**WARNING:** DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

**Won-Top Electronics Co., Ltd.**

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan

**Phone:** 886-7-822-5408 or 886-7-822-5410

**Fax:** 886-7-822-5417

**Email:** sales@wontop.com

**Internet:** <http://www.wontop.com>

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